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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/678,932	10/03/2003	Kouichi Osawa	, 10873.1297US01	1195	
23552	7590 11/16/2004		EXAM	INER .	
MERCHANT & GOULD PC P.O. BOX 2903			LAM, I	LAM, DAVID	
MINNEAPOLIS, MN 55402-0903			ART UNIT	PAPER NUMBER	
,			2818	- · · · · · · · · · · · · · · · · · · ·	
		DATE MAILED: 11/16/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/678,932	OSAWA ET AL.			
		Examiner	Art Unit			
		David Lam	2818			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)□ R	1) Responsive to communication(s) filed on					
2a)∏ T	This action is FINAL . 2b) This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) \(\times \) C 5) \(\times \) C 6) \(\times \) C	 ✓ Claim(s) 1-36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. ✓ Claim(s) 1-36 is/are allowed. ✓ Claim(s) is/are rejected. 					
Application	n Papers					
9) The specification is objected to by the Examiner.						
10)[Th	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Α	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority un	der 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s		∆ □	mont (DTO 412)			
2) Notice (3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 12/03.	Paper No(s)/M	mary (PTO-413) ail Date mal Patent Application (PTO-152)			

circuit.

This application is in condition for allowance except for the following formal matters:

IN THE SPECIFICATION:

- The abstract of the invention exceeded 150 words.

Allowable Subject Matter

Claims 1-36 are allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claimed, to teach: a boosting circuit comprising: a stage-number switching circuit includes a switching transistor, among others as claimed in independent claims 1, 13, 34, 35, for switching an output terminal of the first charge pump circuit group and an input terminal of a second charge pump circuit group between a connected sate and unconnected state in accordance with a stage-number switching control signal, in a case where the stage-number switching control signal is at a first voltage level, the switching transistor is turned on with a supplied clock signal, and in a case where the stage-number switching control signal is at a second level, the switching transistor is turn off; a switching circuit, among others as claimed in independent claims 24, 36, for switching an output terminal of the first charge pump circuit group and an input terminal of the second charge pump circuit group between a connected state and an unconnected state, in according with a signal output from a level shift

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Conclusion

Prosecution on the merits is closed in accordance with the practice under *Ex parte*Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Iwahashi (6,034,899) discloses memory cell of nonvolatile semiconductor memory device comprise voltage boosting circuitry.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Lam whose telephone number is 571-272-1782. The examiner can normally be reached on 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Lam

November 4, 2004

PRIMARY EXAMPLER